
Migrating XA Clients to Corretto Java

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XA Announcement

In 2019, strategy to replace Oracle based Java was announced.

- Oracle java no longer free
- Reduction in java related support costs
- Amazon Corretto

Path provided for customers to migrate

Migration Components

- OS
 - Licensed programs
 - Java 8
 - Group ptf levels

- XA Release
 - Server ptf level
 - Client level
 - Pre-Requisites

Licensed Programs

- Java 8
 - 32 and 64 bit
 - DSPSFWRSC
 - F11 for Release

```
Display Software Resources
System: DEV1
Resource ID
5770999 Resource
5770SS1 ID Option Feature Description
5770SS1 5770JV1 15 5115 Java SE 7 64 bit
5770SS1 5770JV1 16 5116 Java SE 8 32 bit
5770SS1 5770JV1 17 5117 Java SE 8 64 bit
5770MG1 *BASE 5050 IBM Managed System Services for i
5770MG1 *BASE 5051 IBM Managed System Services for i
```

Java Group PTF's

- V7R2
 - SF99716
 - Level 22 or higher
- V7R3
 - SF99725
 - Level 13 or higher
- V7R4
 - SF99665
 - No level defined

Java Group PTF's


WRKPTFGRP PTFGRP(SF99716)

```
Work with PTF Groups
System:  DEV1
Type options, press Enter.
 1=Order  4=Delete  5=Display  6=Print  8=Display special handling PTFs
 9=Display related PTF groups  10=Display PTF apply information








Opt  PTF Group      Level  Status
--  -
_   SF99716        22    Installed
_   SF99716        15    Installed
```

Java Installation

- Entitled Software Support
 - <https://www.ibm.com/servers/eserver/ess/ProtectedServlet.wss>
 - Software Downloads
 - Select IBM i OS, Version/Release
 - Expand packages for B_GROUP1

Product		
5770-SS1	IBM i	
Release	Download Package	View License
07.03.00	5837: i7.3 B_GROUP1 v07.03.00,ENU,DVD	 View
	B_GROUP1_05_IBM_i_RS_730-00	

Java Updates

		 Description	 Release date
	11	 Group: → <u>SF99725</u>  <u>Coverletter</u>	2020/03/24

Group PTF

- Fix Central
 - <https://www.ibm.com/support/fixcentral/>

Java Install/Update

- Minimal downtime required
- Install LPP and load group ptf during normal working hours
- Next scheduled IPL will apply

XA Requirements by Release

- R7.8
 - OS Support limitations
 - KB 1598422
 - Requires R9.2 Global
 - Minimum R7.8 PCM level 9955
 - Empty R9.2 environment
 - Prerequisite ptf's
 - Upgrade to V7R3

XA Requirements by Release

- R9/9.1
 - Server PTF level
 - 4237 Recommended
 - 3.90 Client Level
 - Prerequisite PTF's
 - SH59242
 - SH66333

XA Requirements by Release

- R9.2
 - Prerequisite server PTF
 - SH66333
 - Client PTF level
 - 1.49 or higher

Getting Started

- Create a plan
 - Java 8
 - Installation
 - Group PTF
 - R7.8 Customers order R9 Keys
 - Backups
 - Standard XA and Common
 - Directory /Infor
 - Meet the recommended minimums and satisfy all prerequisites

Getting Started

- Download Installers and Fixes
 - KB 2065923
 - Link Manager Installer
 - Auxiliary Machine Installer
 - Client Fixes
 - R7.8 - SH16196
 - R9.1 - SH16195
 - R9.2 – SH16194
 - Java Client Runtime Component
 - SH16197 .dat file

Performing the Update

- Retrieve Installation Document
 - Infor XA Client Runtime Update Administration Guide
 - KB 2062695
- Read through, paying close attention to instructions on when to restore files to the IFS.
- Follow the steps **EXACTLY!** This will be important to your success.
- Allow 3-4 hours to complete all tasks
- It is NOT recommended to do this over a WAN

Link Manager Update

Reinstall one instance of Link Manager

- Rename the executable

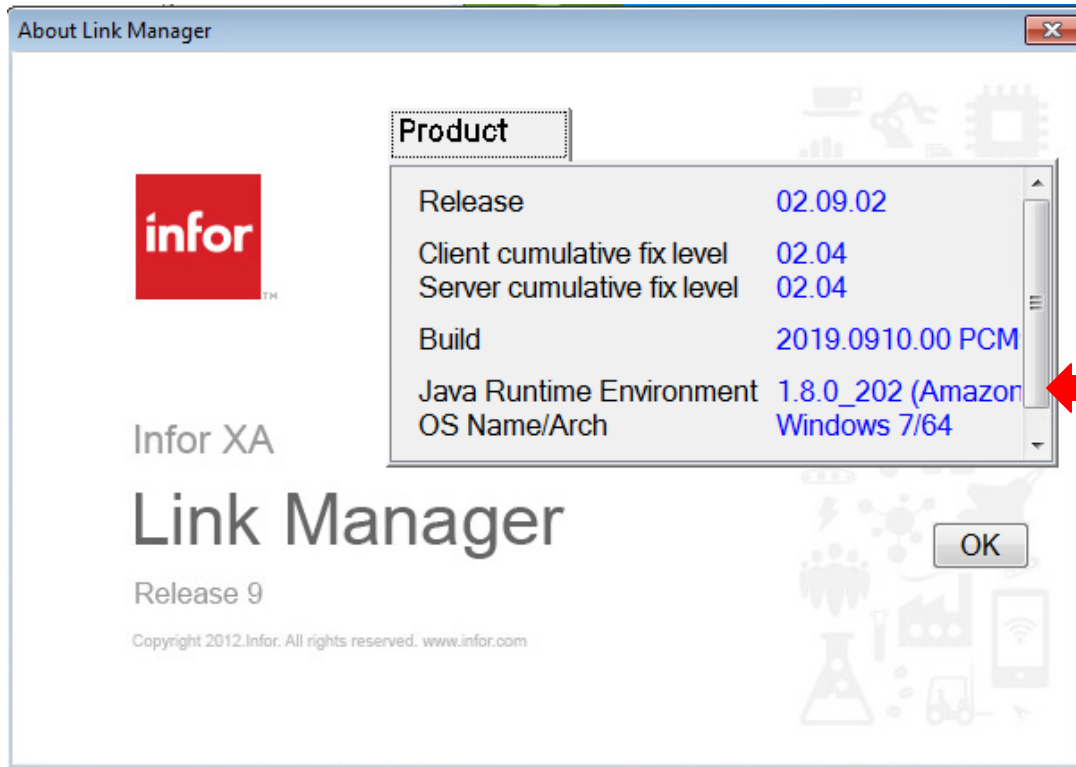
xaadmin_**HISERIES.MYDOMAIN.COM**_P36001.exe

Replace what is in red with your fully qualified host name. Make sure to leave the 'H'.

- Run as administrator to ensure proper installation
- Change the default installation directory
 - Can be deleted after updates are complete

Link Manager Update

- Use Help > About to verify the update

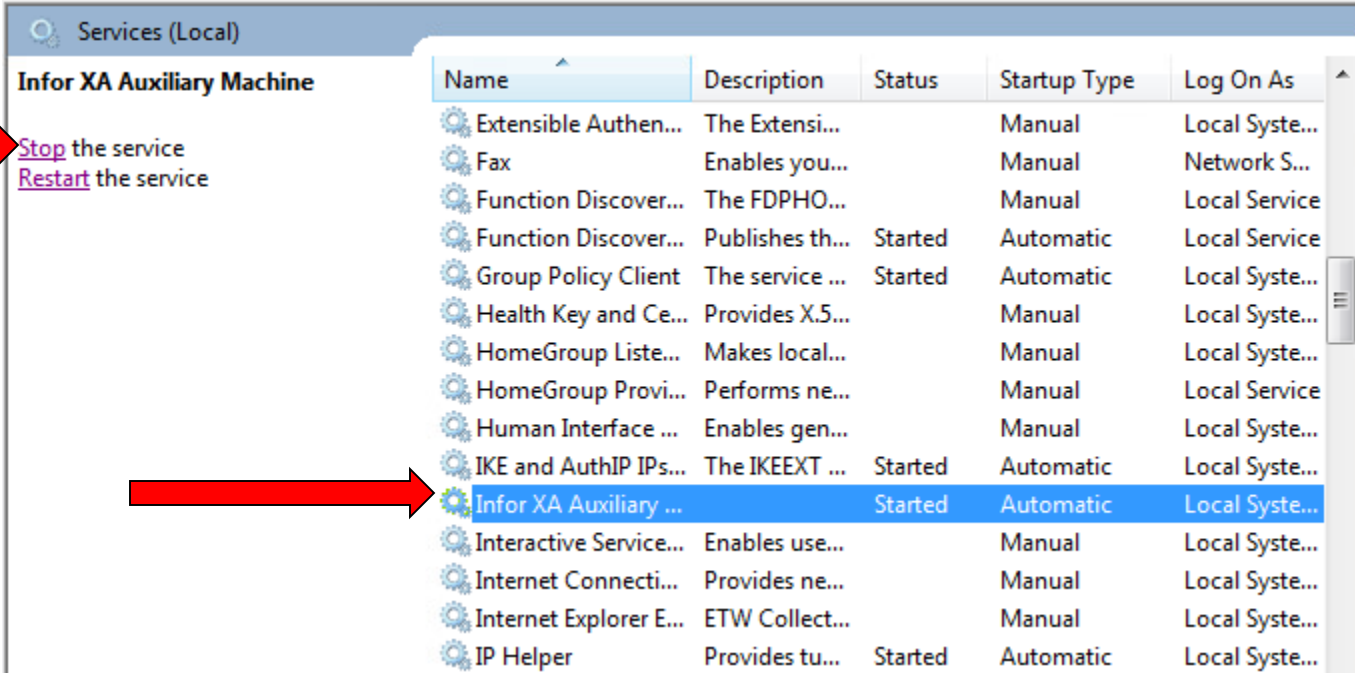


- First login will update other instances

Auxiliary Machine Update

Stop all processes running on the Auxiliary Machine

From services, stop the Infor XA Auxiliary Service



The screenshot shows the Windows Services console for the local machine. The 'Infor XA Auxiliary Machine' service is selected and highlighted in blue. A red arrow points to the 'Stop the service' and 'Restart the service' options in the left-hand pane. Another red arrow points to the 'Infor XA Auxiliary ...' service entry in the main list.

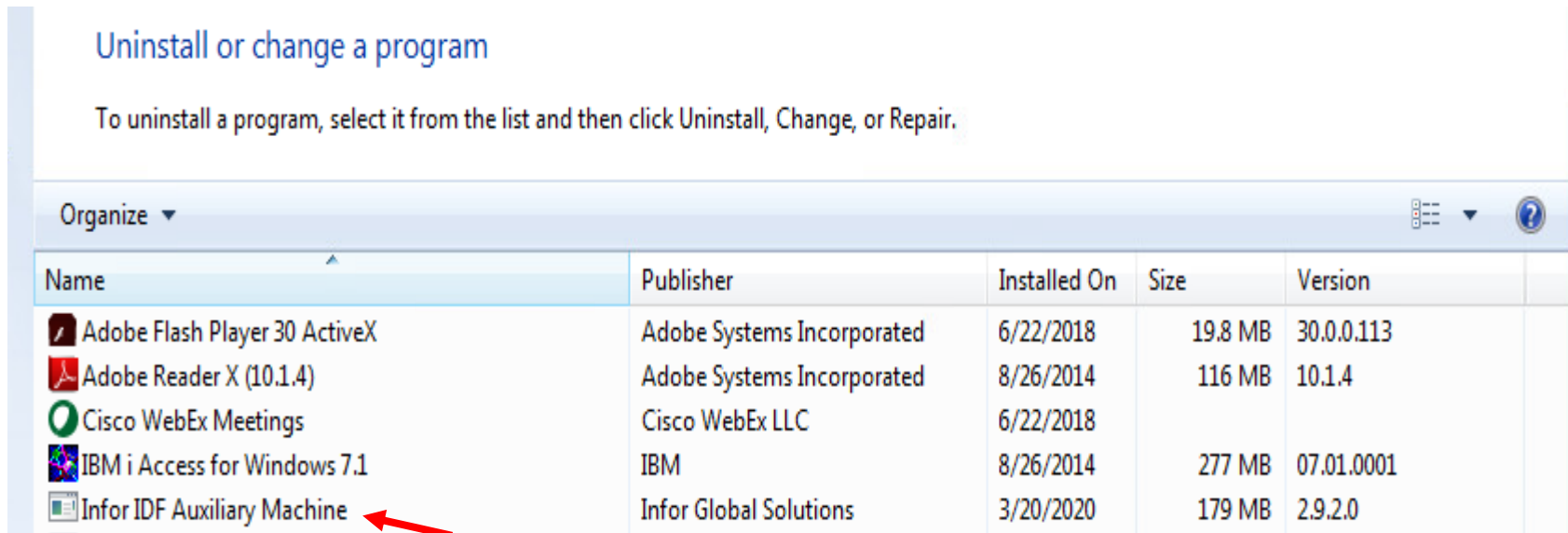
Name	Description	Status	Startup Type	Log On As
Extensible Authen...	The Extensi...		Manual	Local Syste...
Fax	Enables you...		Manual	Network S...
Function Discover...	The FDPHO...		Manual	Local Service
Function Discover...	Publishes th...	Started	Automatic	Local Service
Group Policy Client	The service ...	Started	Automatic	Local Syste...
Health Key and Ce...	Provides X.5...		Manual	Local Syste...
HomeGroup Liste...	Makes local...		Manual	Local Syste...
HomeGroup Provi...	Performs ne...		Manual	Local Service
Human Interface ...	Enables gen...		Manual	Local Syste...
IKE and AuthIP IPs...	The IKEEXT ...	Started	Automatic	Local Syste...
Infor XA Auxiliary ...		Started	Automatic	Local Syste...
Interactive Service...	Enables use...		Manual	Local Syste...
Internet Connecti...	Provides ne...		Manual	Local Syste...
Internet Explorer E...	ETW Collect...		Manual	Local Syste...
IP Helper	Provides tu...	Started	Automatic	Local Syste...

Auxiliary Machine Update

De-install the Infor Auxiliary Machine – Using the Control Panel

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.



Name	Publisher	Installed On	Size	Version
Adobe Flash Player 30 ActiveX	Adobe Systems Incorporated	6/22/2018	19.8 MB	30.0.0.113
Adobe Reader X (10.1.4)	Adobe Systems Incorporated	8/26/2014	116 MB	10.1.4
Cisco WebEx Meetings	Cisco WebEx LLC	6/22/2018		
IBM i Access for Windows 7.1	IBM	8/26/2014	277 MB	07.01.0001
Infor IDF Auxiliary Machine	Infor Global Solutions	3/20/2020	179 MB	2.9.2.0

Auxiliary Machine Update

Do NOT remove Host Presentation or any other directories from /Infor

- Rename the executable

auxinstall_**HISERIES.MYDOMAIN.COM**_P36001.exe

Replace what is in red with your fully qualified host name. Make sure to leave the 'H'.

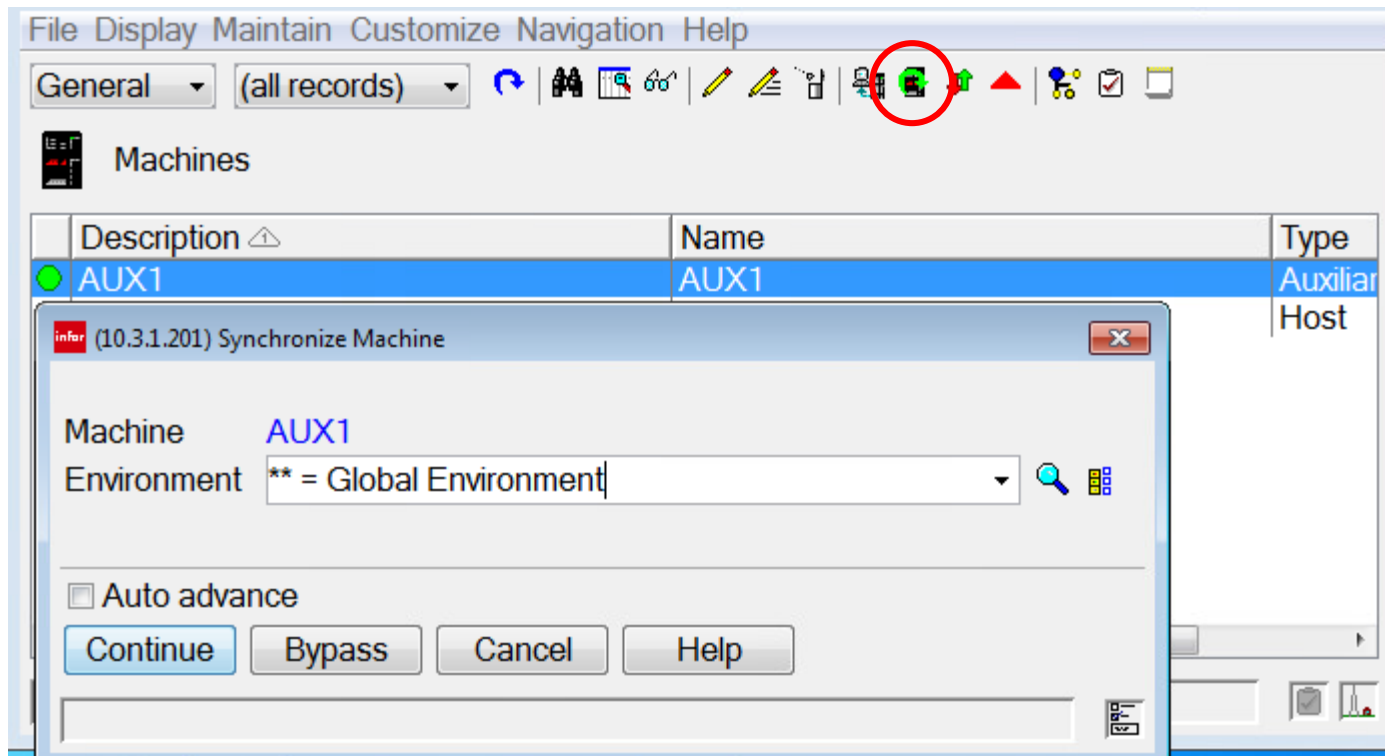
- Run as administrator to ensure proper installation

- Run on the Auxiliary Machine

Auxiliary Machine Update

Log into Link Manager

Resynchronize the Auxiliary Machine with the Global Environment



Auxiliary Machine Update

Verify the Update

File Display Customize Navigation Help

General (all records)

AUX1

Start time	End time
04/26/2020 10:18 AM	
04/22/2020 8:35 AM	04/26/2020 10:18 AM
04/22/2020 8:18 AM	04/22/2020 8:34 AM

AUX1 04/22/2020 8:18 AM

General

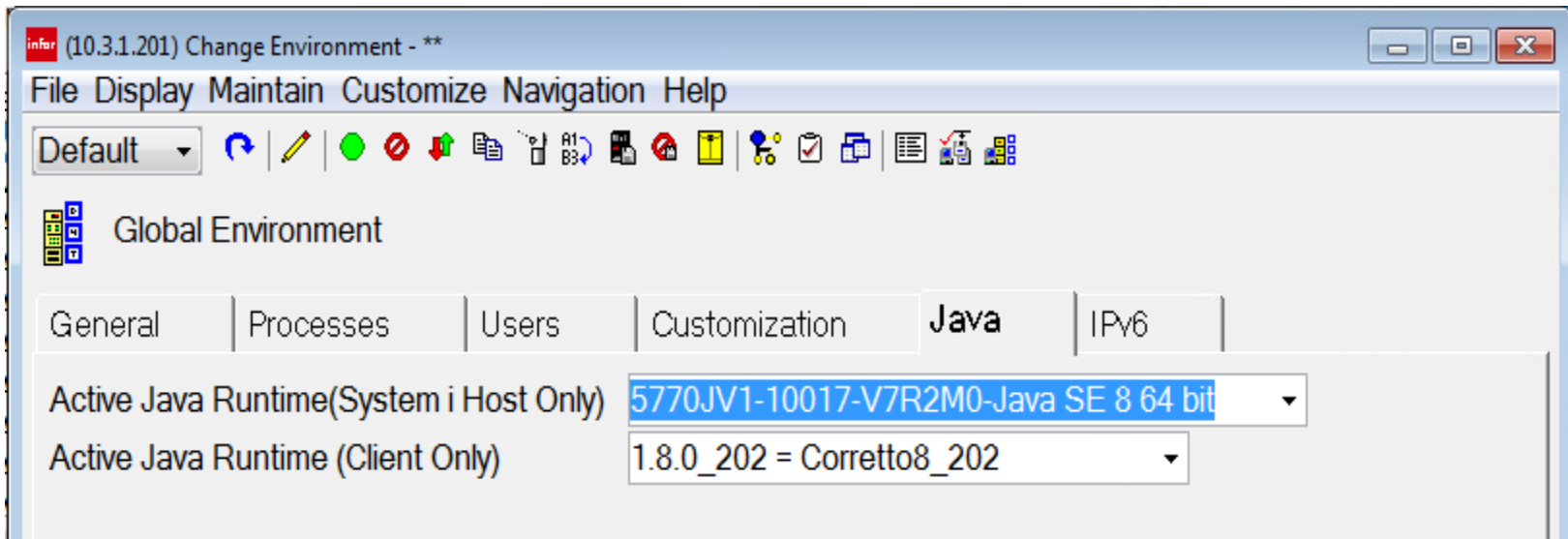
Refresh every (none)

4/22/20 8:18:04 AM EDT : Launcher - Runtime Version: 1.8.0_202 (Amazon.com Inc.)
4/22/20 8:18:04 AM EDT : Launcher - Application Version: 02.09.02.02.04
4/22/20 8:18:04 AM EDT : Launcher - Framework Version: 02.09.02.02.04
4/22/20 8:18:04 AM EDT : Launcher - Platform: Windows 7
4/22/20 8:18:04 AM EDT : Launcher - Current Locale=en_US

Set Host to run Java 8

Log into Link Manager

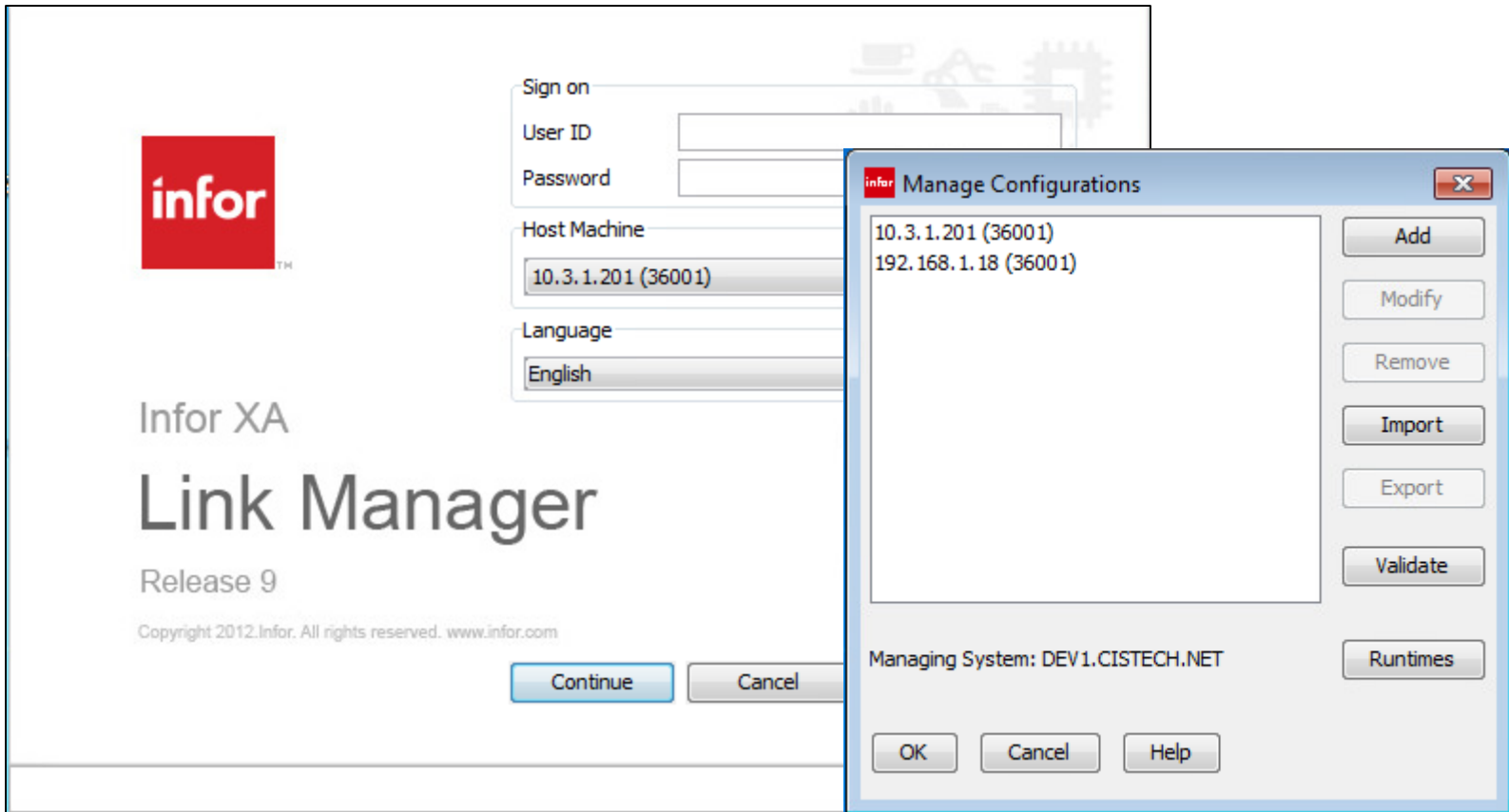
Select to maintain the Global environment, click on the Java tab and from the drop down, select Java 8, 64 bit is preferred



Restart the global only if Java 8 has been selected. Contact support if you are not able to select Java 8

Set Host to run Java 8

Verify managing System



The screenshot shows the Infor XA Link Manager interface. The main window displays the Infor logo, the text "Infor XA Link Manager Release 9", and a copyright notice for 2012. There are input fields for "Sign on", "User ID", "Password", "Host Machine" (containing "10.3.1.201 (36001)"), and "Language" (set to "English"). A "Continue" button is visible. Overlaid on this is a "Manage Configurations" dialog box. The dialog box has a title bar with the Infor logo and a close button. It contains a list of IP addresses: "10.3.1.201 (36001)" and "192.168.1.18 (36001)". To the right of the list are buttons for "Add", "Modify", "Remove", "Import", "Export", "Validate", and "Runtimes". Below the list, it says "Managing System: DEV1.CISTECH.NET". At the bottom of the dialog are "OK", "Cancel", and "Help" buttons.

Apply Client Fixes to Global

- Verify Global has successfully restarted
- Load Client fix ptf to IFS using instructions from cover letter
 - R9.1 - SH16195
 - R9.2 – SH16194
- Verify no other users are logged into Link Manager

Apply Client Fixes to Global

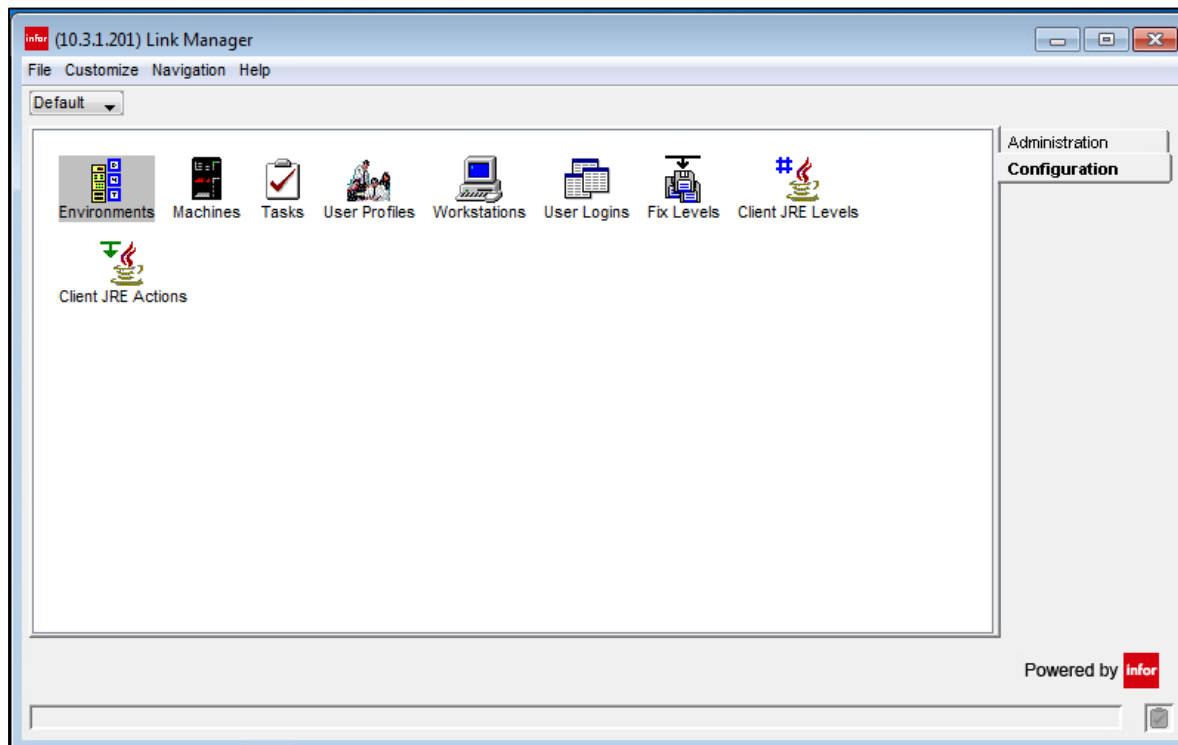
- Highlight the global and apply update
- Select the build version

The screenshot shows the Infor (10.3.1.201) Environments application window. The main window displays a list of environments. The 'Global Environment' is highlighted. An 'Apply Update' dialog box is open, showing the 'Global Environment' selected and the build version '02.09.02.02.04' chosen from a dropdown menu. The dialog also includes checkboxes for 'Restart environment', 'Staged apply', 'Run Integrator Synchronization', and 'Auto advance', along with 'Continue', 'Bypass', 'Cancel', and 'Help' buttons.

ID	Description
**	Global Environment
A2	AM+ test environment
ID	XA9.2 ES Development 5-8-18
PE	XA9.2 ES Dev - IFM 1-16-19 BACKUP
PF	XA9.2 PPS/RF Inv Dev (IFM) 1-25-19
PG	XA9.2 Graphical PPS 4-08-19
PI	XA9.2 Shop Floor Dev (IFM) 1-23-19
PJ	XA9.2 Shop Floor Demo (IFM) 11-25-19
PK	XA9.2 Birst - IFM 3-7-19
PT	XA9.2 EI Training (IFM) 1-23-19
PW	XA9.2 Supplier Ptl Dev (IFM) 1-25-19
T0	R9.2 EFin/EGL Training/Testing

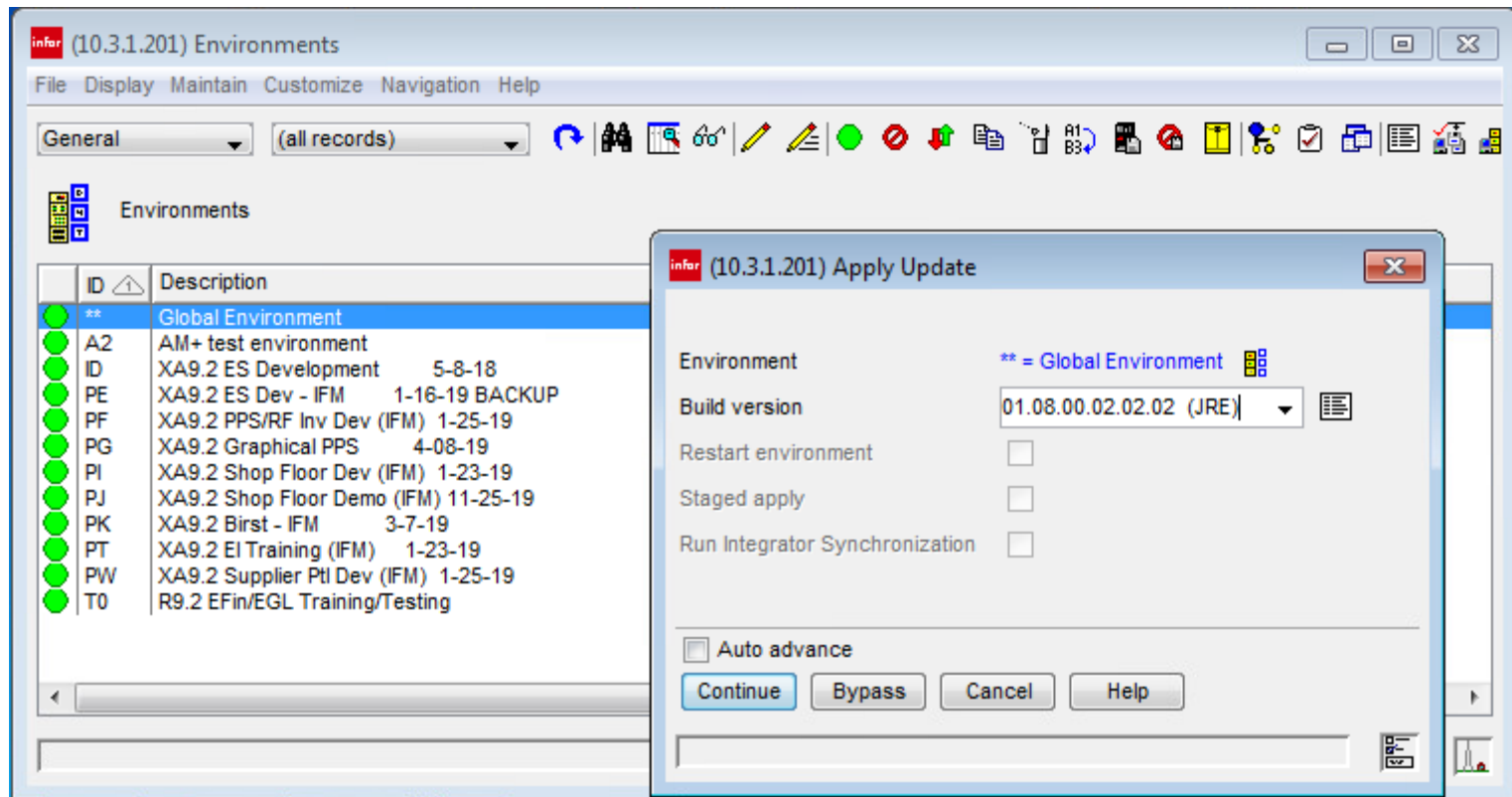
Apply Client Fixes to Global

- Restart the global and verify the two new objects exist – add if not



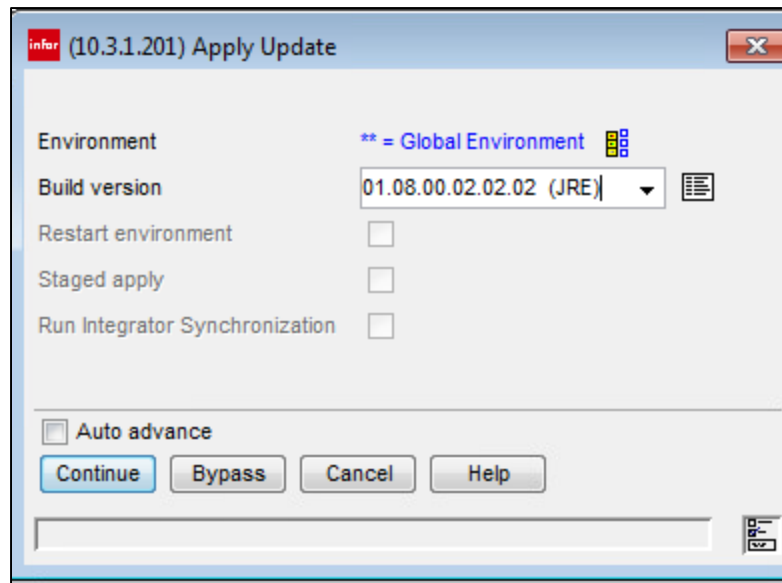
Apply Client Fixes to Global

- Copy the .dat file from SH16197 to the /Infor/fixes folder on the IFS of iSeries



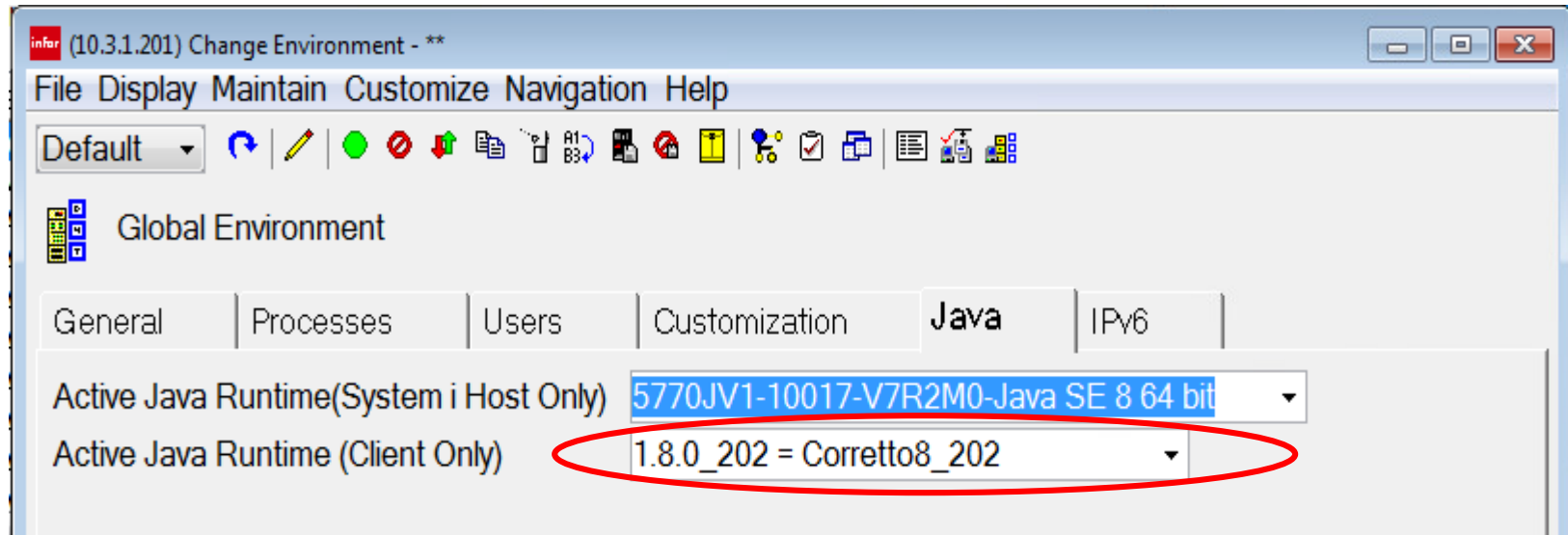
Apply Java Runtime Fix

- Copy the .dat file from SH16197 to the /Infor/fixes folder on the IFS of iSeries
- Apply the update to the Global



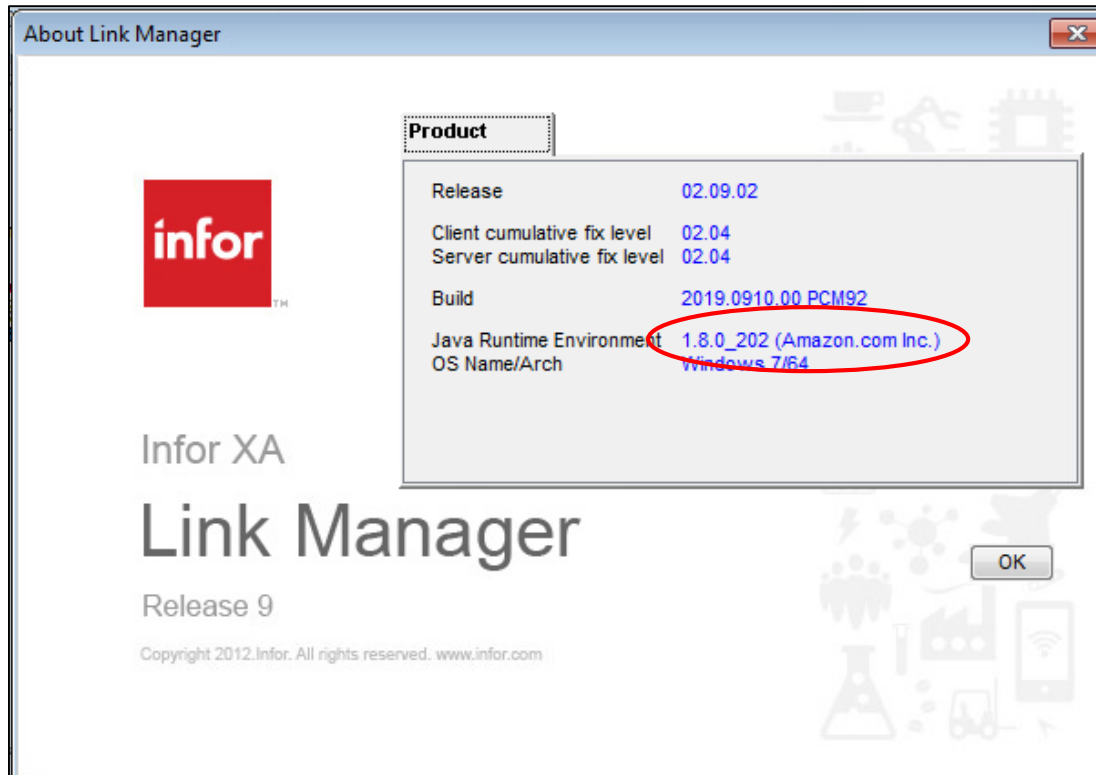
Apply Java Runtime Fix

Restart the Global



Apply Java Runtime Fix

- Updates should now be reflected in Help > About



Apply Java Runtime Fix

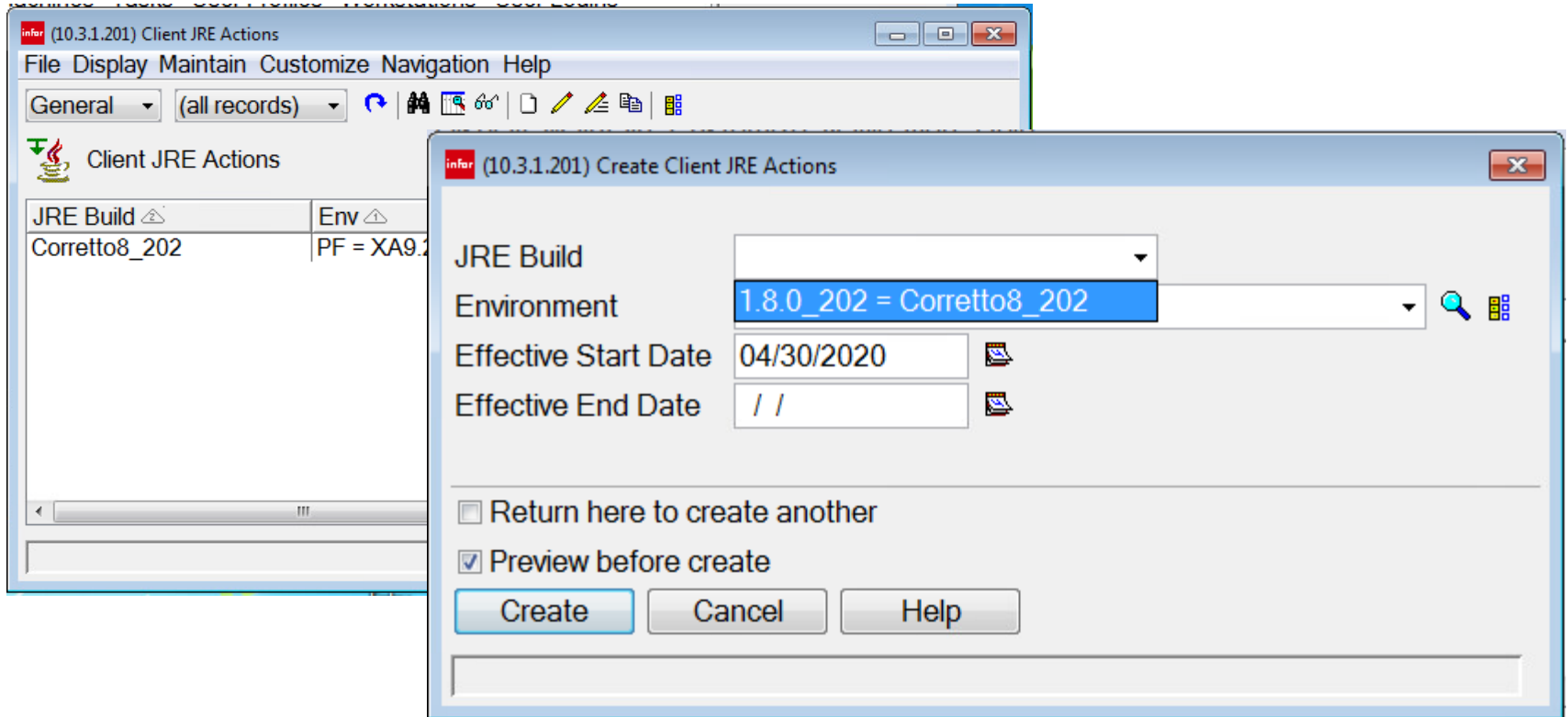
- Updates should now be reflected in Help > About
- Processes should reflect new runtime

The image shows two overlapping windows from the Infor Link Manager application. The background window is the 'About Link Manager' dialog, which displays the Infor logo, 'Infor XA Link Manager', and 'Release 9'. The foreground window is the 'Processes' configuration window, titled '(10.3.1.201) Environment - **'. It features a menu bar (File, Display, Maintain, Customize, Navigation, Help) and a toolbar. The 'Processes' tab is active, showing a table of system processes.

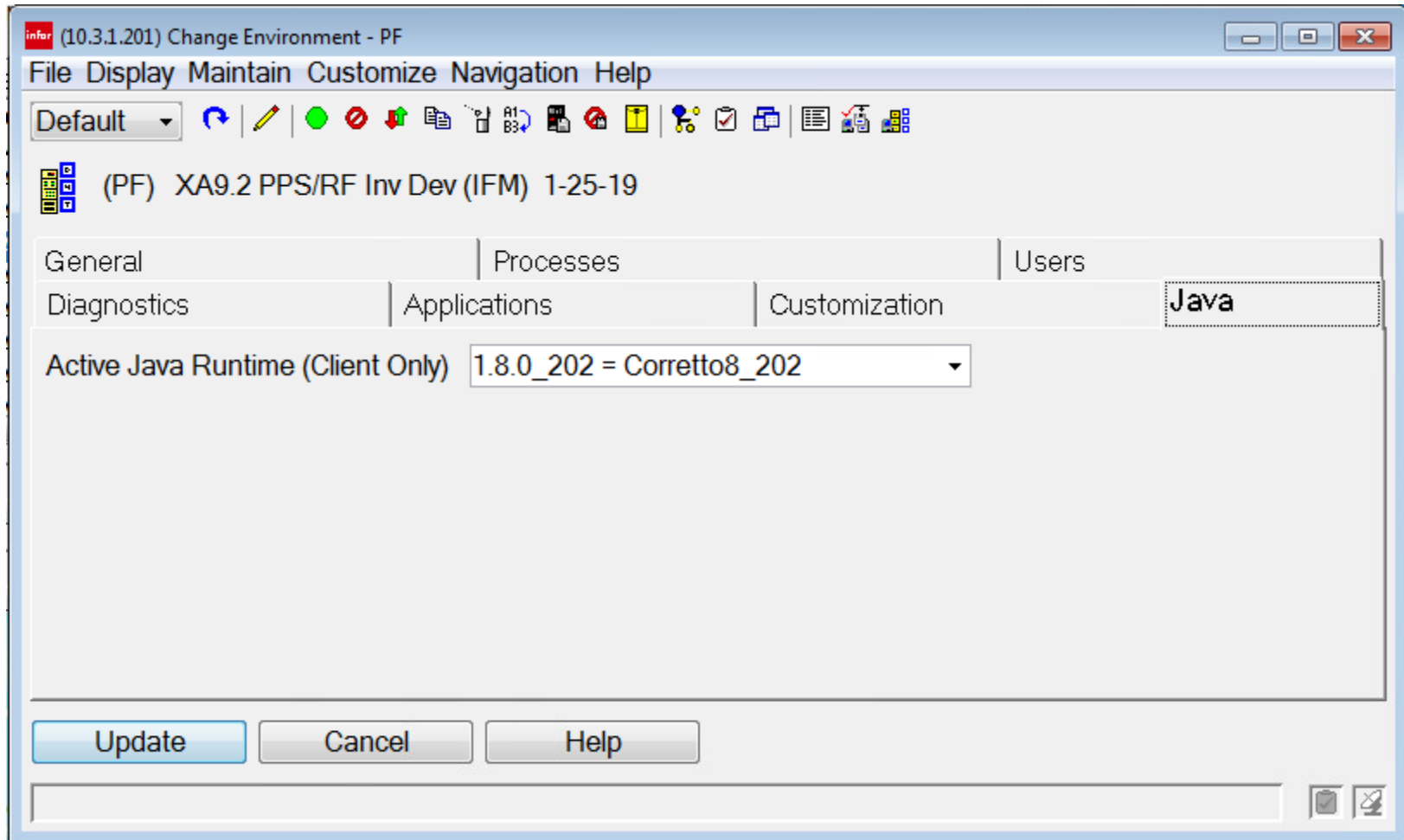
Env	Name	Description	Assigned	Running	Java Runtime
**	NAM	Naming Registry	DEV1.CISTECH.N...	DEV1.CISTECH.N...	
**	IBA	System-Link Infor ESB Adapter	DEV1.CISTECH.N...	DEV1.CISTECH.N...	
**	SLI	System-Link Inbox (PE)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (A2)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PT)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PI)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PF)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PW)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PK)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PG)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (T0)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211
**	SLI	System-Link Inbox (PJ)	DEV1.CISTECH.N...	DEV1.CISTECH.N...	1.8.0_211

Set Runtime available for Download

- JRE Actions



Set Runtime for Use



Apply Client Fix to Business Environments

- Apply client update to business environments as desired

The screenshot shows the Infor (10.3.1.201) Environments application window. The main window displays a list of environments with columns for ID, Description, and a date. The 'PG' environment, 'XA9.2 Graphical PPS' (dated 4-08-19), is selected. An 'Apply Update' dialog box is open over the PG environment, showing a dropdown menu for 'Build version' with the following options: 02.09.02.02.11, 02.09.02.02.04, 02.09.02.01.49, 02.09.02.01.45, 02.09.02.01.38, 02.09.02.01.33, 02.09.02.01.10 (TRN), 02.09.02.01.03 (HPS), 02.09.02, and 02.09.02 (HPS). The '02.09.02 (HPS)' option is selected. The dialog also includes an 'Auto advance' checkbox, 'Continue', 'Bypass', and 'Cancel' buttons.

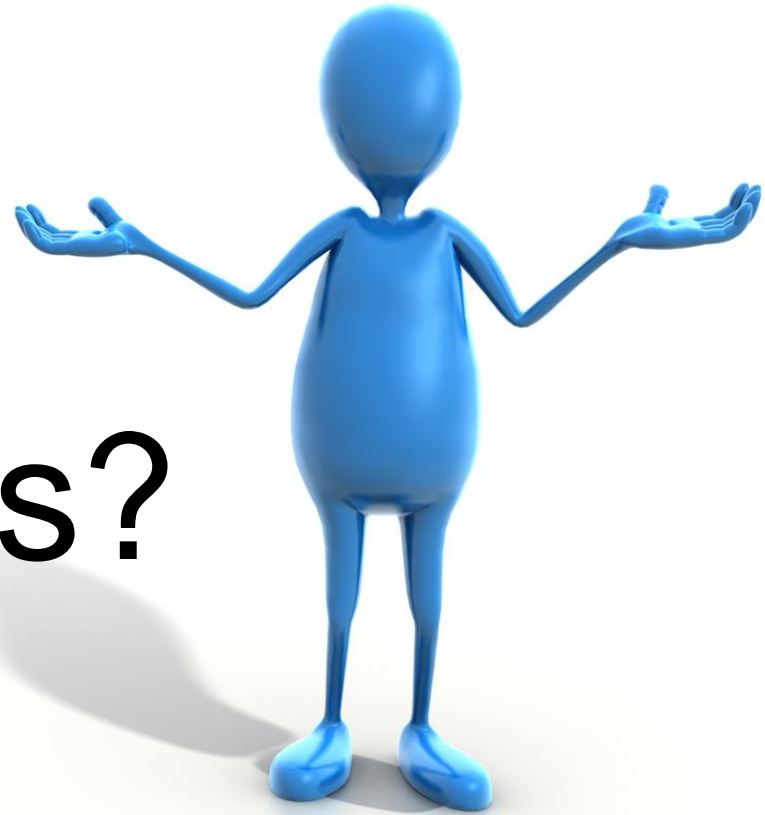
ID	Description	Date
**	Global Environment	
A2	AM+ test environment	
ID	XA9.2 ES Development	5-8-18
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PF	XA9.2 PPS/RF Inv Dev (IFM)	1-25-19
PG	XA9.2 Graphical PPS	4-08-19
PI	XA9.2 Shop Floor Dev (IFM)	1-23-19
PJ	XA9.2 Shop Floor Demo (IFM)	11-25-19
PK	XA9.2 Birst - IFM	3-7-19
PT	XA9.2 EI Training (IFM)	1-23-19
PW	XA9.2 Supplier Ptl Dev (IFM)	1-25-19
T0	R9.2 EFin/EGL Training/Testing	

Apply Client Fix to Business Environments

- Corretto / Non-Corretto environments can coexist provided minimum client level is running

Version	IBM i	Minimum client level
9.1	Not P9	03.66
9.1	P9	03.90
9.2	Not P9	01.24
9.2	P9	01.49

Migration to Corretto Java Platform



Questions?

Corretto Java – Need Help?

- CISTECH Technical Services can assist
 - Monthly service offering
 - Upgrade XA Server and Client
 - Upgrade IBM OS
 - Upgrade Java to Corretto (one-time service)